

Title (en)
CONSORTIUM OF FUNGI IMMOBILISED ON A LAMINAR LIGNOCELLULOSE CARRIER FOR THE TREATMENT OF WASTEWATER AND METHOD FOR PRODUCING SAME

Title (de)
AUF EINEM LAMINAREN LIGNOCELLULOSETRÄGER IMMOBILISIERTES PILZCLUSTER ZUR BEHANDLUNG VON ABWASSER UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)
CONSORTIUM DE CHAMPIGNONS IMMOBILISÉS SUR UN SUPPORT LAMINAIRE EN LIGNOCELLULOSE POUR LE TRAITEMENT DES EAUX USÉES ET TRAITEMENT PERMETTANT SA PRÉPARATION

Publication
EP 3081539 A4 20170621 (EN)

Application
EP 14869567 A 20141209

Priority
• CO 13290121 A 20131211
• IB 2014002720 W 20141209

Abstract (en)
[origin: EP3081539A1] The invention relates to a laminar biocarrier made by weaving or interlacing yarns of lignocellulosic material, which supports and immobilizes a consortium of wood-decay fungi, in particular strains of *Pleurotus ostreatus* and *Phanerochaete chrysosporium*, for the treatment of wastewater contaminated by colourants, heavy metals, chemical oxygen demand and biological oxygen demand. The invention also relates to a method for producing the inoculated laminar biocarrier and to the use thereof as a filter for reactors of different configurations for the treatment of waste effluents.

IPC 8 full level
C02F 3/34 (2006.01); **C12N 1/14** (2006.01)

CPC (source: EP US)
C02F 3/04 (2013.01 - US); **C02F 3/103** (2013.01 - EP US); **C02F 3/34** (2013.01 - EP US); **C02F 3/347** (2013.01 - US); **C12N 1/14** (2013.01 - EP US); **C12N 11/12** (2013.01 - EP US); **C02F 2101/20** (2013.01 - US); **C02F 2101/308** (2013.01 - US); **C02F 2103/30** (2013.01 - EP US); **C02F 2203/006** (2013.01 - US); **Y02W 10/10** (2015.05 - EP US)

Citation (search report)
• [XDYI] WO 03035561 A2 20030501 - UNIV CATHOLIQUE LOUVAIN [BE], et al
• [XDI] FR 2772623 A1 19990625 - RHONE POULENC CHIMIE [FR]
• [Y] EP 1679287 A1 20060712 - SORCE INC [US]
• [XI] IQBAL M ET AL: "Entrapment of fungal hyphae in structural fibrous network of papaya wood to produce a unique biosorbent for the removal of heavy metals", ENZYME AND MICROBIAL TECHNOLOGY, STONEHAM, MA, US, vol. 39, no. 5, 4 September 2006 (2006-09-04), pages 996 - 1001, XP027948924, ISSN: 0141-0229, [retrieved on 20060904]
• [XI] LU Y ET AL: "Biodegradation of phenolic compounds from coking wastewater by immobilized white rot fungus *Phanerochaete chrysosporium*", JOURNAL OF HAZARDOUS MATERIALS, ELSEVIER, AMSTERDAM, NL, vol. 165, no. 1-3, 15 June 2009 (2009-06-15), pages 1091 - 1097, XP026053818, ISSN: 0304-3894, [retrieved on 20081031], DOI: 10.1016/J.JHAZMAT.2008.10.091
• See references of WO 2015087143A1

Cited by
CN107140747A; EP4028141A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3081539 A1 20161019; EP 3081539 A4 20170621; CO 6920053 A1 20140410; US 10087094 B2 20181002; US 2016280574 A1 20160929; WO 2015087143 A1 20150618

DOCDB simple family (application)
EP 14869567 A 20141209; CO 13290121 A 20131211; IB 2014002720 W 20141209; US 201415103712 A 20141209